

## ABSTRACT

In the case where the absolute value of steering angle  $\theta_s$  is equal to or greater than a prescribed angle, a motion control apparatus 10 for a vehicle sets a control gear ratio  $n$  in such a manner that when an estimated vehicle-body speed  $V_{so}$  is equal to or greater than a prescribed value, the control gear ratio  $n$  becomes a value which is equal to or greater than "20" and which increases with the estimated vehicle-body speed  $V_{so}$  as the absolute value of the steering angle  $\theta_s$  increases, and when the estimated vehicle-body speed  $V_{so}$  is less than the prescribed value, the control gear ratio  $n$  becomes a value which is not greater than "20" and which decreases with the estimated vehicle-body speed  $V_{so}$  as the absolute value of the steering angle  $\theta_s$  increases. The apparatus then calculates a target yaw rate  $Y_{rt}$  by making use of an equation shown in Step 510 and using the control gear ratio  $n$ , and controls a braking force applied to each wheel so that the actual yaw rate  $Y_r$  coincides with the target yaw rate  $Y_{rt}$ .